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## The Missouri Miner, December 16, 1936

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DEC 17 1936

# THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME XXIII

ROLLA, MO., WEDNESDAY, DECEMBER 16, 1936

NUMBER 13

## G. E. Personnel Head Addresses Student Assembly

Mr. Boring Tells What Employers Expect From Graduates. Dancing and "Bull Sessions" Advocated.

"What an Employer Looks For in the College Graduate" was the subject of Mr. M. M. Boring's talk to a special assembly yesterday morning in Parker Hall.

Mr. Boring, in charge of the employment of college graduates for the General Electric Company, was accompanied by Mr. A. K. Bushman and Mr. J. D. Vallier who are interviewing those seniors desirous of working for the General Electric Co. after graduation.

The past few years have been very difficult ones for graduating students, but from the present outlook, it appears that the depression years are past for students finishing this June. There are now about 350,000 people working under the G. E. monogram. This, of course, includes even the store keeper who sells only G. E. light bulbs. Out of this number 5707 are college graduates. A very large number of these college graduates are technically trained, others are graduates in business and the arts. One member is a graduate in theology.

The General Electric Company has found that in order to retire one man at the age of 65, they must employ 9 at the age of 20. There are various reasons for this 9 to 1 ratio. Some of the men drop out to return to school for graduate work, others change fields of activity, and still others are unable to meet the requirements of the company.

A very interesting fact brought out by Mr. Boring was that college graduates of the Class of '37, have only to compete in this world against other graduates of this same year. There is some slight overlapping here but as a whole this statement is largely true.

During the depression years, college graduates did not find many companies interested in interviewing seniors. The companies were forced to make drastic cuts in the number of their employees. The General Electric Co. was one of them. From the point of view of the personnel department, this unpleasant task was a very interesting one. The first employees to be removed were those who were not doing a good job, then came the routine workers, and, finally those who had reached the peak of their success in a short time. After all the poorer workers had

Continued on Page Three

## LONG TO HEAD ALPHA PSI OMEGA DELEGATES

Alpha Psi Omega met Thursday, December 10, at 7:30, in Norwood Hall.

At the meeting J. R. Long, president of the local chapter, was elected as a delegate to the National Convention of Alpha Psi Omega which will be held in St. Louis, December 28th, at the Statler Hotel. The convention will be held in conjunction with the National Association of Teachers of Speech.

A discussion was held concerning a play to be given early in March. No definite selection of a play was made.

## Season's Greetings

To wish you all the good Things  
That CHRISTMAS can possess  
To wish you many years ahead  
Well filled with happiness—

The Miner Staff

## Steps of Brewing Outlined in Talk

Alpha Chi Sigma and Ira Remsen Hear Representative of Anheuser-Busch.

The Alpha Chi Sigma and Ira Remsen again met jointly last Wednesday, Dec. 9, to hear one of a series of lectures by representatives of large manufacturing concerns. Mr. Richard W. Bussen, Assistant General Manager of the Anheuser-Busch Breweries, spoke on the technical points in the manufacturing of beer. His talk, entitled "Principles and Practice of Brewing," dealt with the highly technical chemical and physical points of that art. He said that the raw materials for beer are hops, an odiferous flower; raw grains, rice in this case; malt, made from carefully selected and treated barley; water, and yeast, the last grown from an imported strain many years old and worth thousands of dollars. Mr. Bussen outlined the steps in brewing in the following manner, discussing each point thoroughly as to chemical reactions involved.

1. Malting — the preparation of barley for beer:
  - a. Steeping the barley in water.
  - b. Germination of the barley grains in gigantic incubators.
  - c. Kilning—or drying the grains to stop germination at just the right time.
2. Brewing — the preparation of the mash:
  - a. Grinding the malting barley.
  - b. Mashing and straining the malt.
  - c. Treating in large kettles.
  3. Fermentation with the yeast:
    - a. Cooled in a receiving tank.
    - b. Transferred to the "starting cellar" where fermentation is begun.
    - c. Fermented in vats. In this process the sugar, made from the starch in the barley and rice, is changed to alcohol and carbon dioxide.

The beer is then aged over beech wood chips where a "kraeusening", or vivifying action takes place, carbon dioxide being dissolved naturally in the brew. The beer is then filtered and bottled or kegged. Well equipped laboratories are constantly checking every step in this complicated process. The Anheuser-Busch Breweries manufacture on the average one million five hundred thousand barrels of beer annually. Following the speech was a picture presented by Mr. George Renard, the auditor in the sales department of the same firm, illustrating very clearly the steps brought out in the lecture by scenes from the brewery.

## A. I. M. E. TO MEET TOMORROW NIGHT

The A. I. M. E. will hold a meeting Thursday, December 17th, in the Geology lecture room in Norwood Hall. Mr. Coghill will give a talk on the A. I. M. E. national convention, which he attended; and which was held at Mexico City, Mexico. He will also describe a trip he made to interesting spots in Mexico before returning to Rolla. His lecture will no doubt be very interesting, since Mr. Coghill has a thorough understanding of the mining and metallurgy industry, as well as being thoroughly acquainted with mining and metallurgy operations.

M.S.M.

## Pledges Speak at Tau Beta Pi Banquet

Banquet Preceded By Initiation; Graduate Members Also Speak.

The Beta Chapter of Missouri Tau Beta Pi held their semi-annual banquet in honor of the initiates at the Pennant Tavern Thursday, December 10, at 7:00 p. m. The banquet was preceded by an initiation of the pledges at 6:00. The graduate members present were: Dr. Henry H. Buehler, Professors David Walsh, Herbert Hanley, Clarence Bardsley, Garrett Mullenburg, Walter Zeuch, and Rex Williams. There were no scheduled speakers but each pledge and graduate member gave a short but interesting talk on any subject he desired.

The purpose of the Tau Beta Pi has always been to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates or by their attainments as alumni; and to foster a spirit of liberal culture in the Engineering Schools of America.

It was unanimously decided to continue meetings of this sort in the form of a banquet in the time to come.

M.S.M.

## CARROLL ELECTED PRESIDENT OF JUNIOR CLASS

At a recent meeting of the Junior Class the following men were elected officers of the class:

Joseph Carroll, President.  
Melvin Nickel, Vice-president.  
J. Craig Ellis, Treasurer.  
H. Prange, Secretary.

The Alpha Chi Sigma and Ira Remsen feel very fortunate in having heard this lecture, and look forward to another visit by these men in the future.

## Locks Discussed at A.S.M.E. Meeting

Mr. Maxwell of Yale Towne Mfg. Co. Presents Informal Talk.

At the student chapter meeting of the A. S. M. E. held last Saturday evening, Mr. M. C. Maxwell assistant to the president of the Yale Towne Mfg. Co., presented an informal illustrated talk.

According to Mr. Maxwell, our present day locking system is a development of the last sixty years, and is based fundamentally on the same principles of the old Egyptian locks, one of which was found in the ruins of Ninevah. Both lock and key are constructed of wood. It consisted of a staple fastened to the door and containing in the upper part, moveable pins, in this case there are six. When the bolt is slid into the locking position, these pins fall into six holes having the same pitch as those in the staple. This mechanism prevents the bolt being moved until the pins are raised to the level of the top of the bolt by a specially built key. By changing the pitch of the pins, several locking changes were made possible.

The fallacy of the common cheap door lock known as the Sashard lock is that there is only twelve changes in the warding. (wards are circular steps varying height) consequently, after twelve locks are sold the next one will be a duplicate. However this makes difference as one may secure three skeleton keys for ten cents that will open any of the locks.

Better locks are constructed on the tumbler principle which can only be opened by a key which lifts the tumblers or leaves to an exact height at which the talon on the bolt can pass through. A greater number of changes is possible with this lock.

The great improvement came in 1848, when Linus Yale conceived the idea of adapting the Egyptian lock to modern requirements. To do this he brought about a revolutionary change by separating the key mechanism from the lock itself, thereby making it possible for a very small key to be used as it did not have to pass through the door. Some of the old metal keys Mr. Maxwell possessed weighed two or three pounds. The cylinder or the part in which the key operated, consists of an outer barrel which is fixed to the door and cylindrical plug which is rotated by the key and has a tongue on its back end which projects into the lock. The

Continued on page three

## Clayton Elected President of M.I.A.A. Conference

Coaches Complete Two Years Football Schedules; Kirksville Host at Banquet.

By B. C. COMPTON  
Miner Sports Writer

Professor C. Y. Clayton was elected president of the Missouri Intercollegiate Athletic Association at a meeting held at Hotel Statler in St. Louis Saturday. Dr. W. W. Parker, of Cape Girardeau, was named vice-president, and G. H. Jamison, of Kirksville, secretary and treasurer of the loop which includes the School of Mines and the five State Teachers Colleges at Maryville, Kirksville, Springfield, Cape Girardeau and Warrensburg.

Coaches from the six colleges completed football schedules for two years, departing from the custom of scheduling one year at a time, to allow for non-conference home and home agreements.

Eligibility standards in regard to M. S. M. and the Five Teachers Colleges were deferred until next year's meeting. While M. S. M. athletes must be passing in 12 out of 19 calendar and credit hours, the Teachers College students have to be passing 7½ out of 16 calendar hours.

A committee was named to study the possibility of standard awards to lettermen in the conference. At present each school awards letters, etc., in regard with their own requirements.

Henceforth the annual meeting will be held in Kansas City on the same date as the Big Six and Missouri Valley meetings to insure a closer harmony between all the conferences.

In all probability the mentors will attend the annual rules interpretation meeting with the other loops, thus assuring non-conference foes of standard game arrangements.

The 1936 football championship was formally awarded to Kirksville which in winning its fifth consecutive title, had won 21 straight games.

Kirksville was host at a dinner for the coaches and faculty representatives. Besides Professor Clayton, who is chairman of the Athletic Board of Control, Prof. "Spike" Dennie attended the meeting.

Coaches present besides Grant were Abe Stuber, Cape Girardeau; Andy McDonald, Springfield; A. E. Davis, Maryville, and Carl Voltmer, Warrensburg.

Athletic Directors Briggs, Springfield; Tad Reid, Warrensburg, and Prichard, Cape Girardeau, were also present as well as Basketball Coach.

Continued on page three.

## ROLLAMO TO GO TO PRESS NEXT WEEK

Last week O. K. Holman, editor-in-chief of the Rollamo Board, met with the board members to discuss plans for the 1937 Rollamo. Very little has been said about the Rollamo Board but its members have been very active this year in preparing the new school annual. At last week's meeting a large part of the scrip was turned in for final checking before printing. The Rollamo will go to press at the beginning of the Christmas vacation. It has been planned that this publication will be somewhat different from what it has been in the past several years.



# THE MISSOURI MINER



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**FACULTY ADVISER** .....DR. J. W. BARLEY

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## STUDENT GOVERNMENT AGAIN

In this week's Miner will be found a plan of student government which if worked out carefully would unify the student body. Read this article and address any comments, to the Miner. —M.S.M.—

Often it's wise to swallow your pride and conserve your capital. —M.S.M.—

## CHRISTMAS

The Christmas Season is at hand. The meaning it will have for the faculty and student body of M. S. M. will be varied. A good many still hold to that childish or adolescent feeling that something will be received as a gift during the Christmas Holidays. It is entirely possible that some still follow that very honorable custom of hanging up the Christmas stocking.

To others it may have an entirely different meaning. It will probably find expression, not in the reception of a gift but possibly in the form of a service to some person or persons less fortunate. What greater pleasure could we look for than to render a service to some person less fortunate than we? This service need not be of great magnitude, expressed in terms of dollars expended or hours in its accomplishment. May not the spirit of the real Christmas be carried out in the performance of some act or deed to some persons, the performance of this act or deed they will cherish for days to come. Such an effort on our part will be comparable to those who brought "gold, frankincense and myrrh" as gifts two thousand years ago.

By virtue of the very position that we occupy as faculty members and students in an institution of higher learning, are we prepared to render this service. —M.S.M.—

School yourself not to keep up an argument just because you are sure you are right. —M.S.M.—

## ARE WE ENGINEERS?

"An engineer is a fellow who can tell whether a thing will work before it is tried—any poor fool can tell after!" This definition of an engineer was recently given by Mr. A. M. MacCutecheon, president of the A. I. E. E.

Many times one begins to doubt whether the students at M. S. M. have any idea at all of the definition of a real engineer. From the way so many of us act, one gets the impression that an engineer is simply a person who is hard, loud mouthed, and brainless. The prevailing warped idea calls for mob action and brute force in the execution of ideas.

There are many students who do not approve of this attitude but do not take any initiative in changing this atmosphere. The destruction of personal or public property solely for the purpose of one's personal gratification should be stopped by the time a person reaches the college age. If everyone acted as some of us act what type of a world would this be? —M.S.M.—

## A PROPOSAL FOR CAMPUS ORGANIZATION

The following plan is an attempt to unify the existing boards on the campus, that is; the Miner Board, Rollamo Board, St. Pat's Board, and the Athletic Association, into a simple system in which each board will be responsible to the student body, from which each of these boards has sprung and for whom it functions.

The plan will accomplish the following results:

1. It will consolidate all the students into a student association whose prime motive will be the efficient control of the campus and the edification of the Missouri School of Mines.
2. It will give each student a direct part in the conduct of campus affairs.
3. It will present to the student the program made by the various boards which represent him, giving him full though general knowledge of what is being attempted on the campus.
4. It will bring together men of various interests and permit them to discuss campus problems in the open and under the same roof.

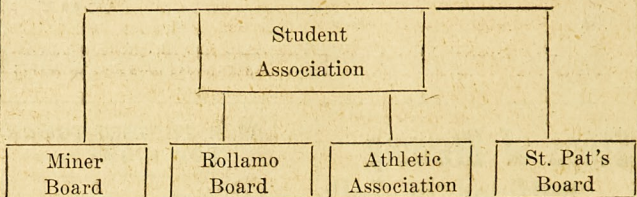
5. It will set up an instrument whereby the faculty may easily and quickly know the attitude or the opinion of the student body on any particular problem or question.

6. It will fulfill on the campus the highest American ideals of democratic government and thereby prepare the student effective citizenship after graduation.

7. It will present to the student body a lucid path of responsibilities by which incompetency will be readily checked.

8. It will develop a school spirit by giving to each man an active part in the conduct of campus affairs.

The plan is essentially that of the New England town meeting which the mass meetings of the students analogous to the town-meetings of the citizens. The plan may be presented schematically as shown below.



According to the plan the Student Association is the principal body on the campus. Every registered student whose fees are paid is a member of the Association and is entitled to one vote which he casts at the mass meetings. The officers of the association are the president, the vice-president, and the secretary of the Student Association, whose sole and only duty is to preside and to record the proceedings of the mass meetings. These officers can hold no other position in the four major boards on the campus.

As shown in the diagram the four major boards, which are the organizations that mold the policies of the campus are directly responsible to the Student Association. At regular intervals these boards are required to present to the student body at the mass meetings the progress they have made in their departments, and at these times will ask for a vote of approval, which will be interpreted to mean that the program is satisfactory and should be continued. After these reports are made any student member of the Student Association is free to make any suggestions or to present any problem for the consideration of the student body.

This plan does not meddle with the internal organization or the functions of any individual board. Its purpose is to coordinate the work of them all so as to give the individual man on the campus a continuous picture of the work being done by his representatives.

## Fraternity Highlights

By Ruemmler

### SIGMA PI

The Sigma Pi Fraternity was founded on February 26, 1867, at Vincennes University, Vincennes, Indiana. Next to the Miami Triad, it is the oldest national fraternity originating west of the Ohio River.

The objects of the fraternity are to establish a brotherhood of and for, college men; to promote scholarship and literary culture; to advance the cause of education; to raise the standards of morality and develop the character of men; to diffuse culture and encourage chivalry among men.

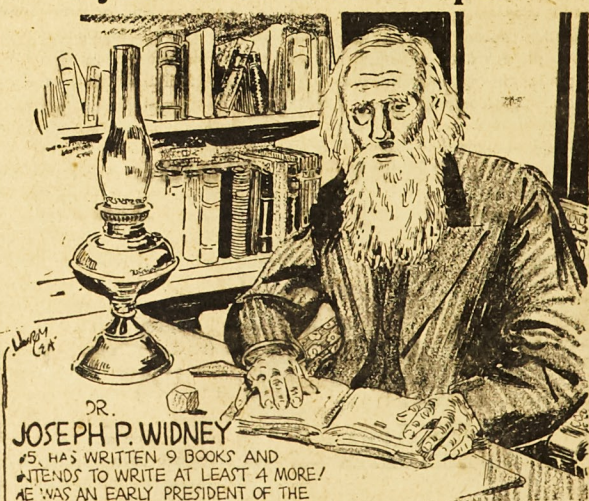
The Sigma Pi Chapter at the Missouri School of Mines was installed April 29, 1933. This chapter was formerly the Prospector Club. The Prospector Club was founded and organized in 1913 by sixteen upperclassmen of the Missouri School of Mines.

At the offset of the World War, practically the entire membership of the Prospector Club enlisted. A few active members kept the club going, until 1919 the club was successfully reorganized. In 1922 the club was incorporated under the Fraternity Laws of the State of Missouri. The Alpha Iota Chapter of Sigma Pi was installed here in 1933.

Only those of the Caucasian race and Christian faith, whose character and standards of morality are above

reproach, can gain admittance into Sigma Pi. The total membership was 5,909 on July 31, 1934. The net

## Eyes Over The Campus



DR. JOSEPH P. WIDNEY  
5. HAS WRITTEN 9 BOOKS AND ATTEMDS TO WRITE AT LEAST 4 MORE!  
HE WAS AN EARLY PRESIDENT OF THE UNIVERSITY OF SO. CALIFORNIA AND THE FOUNDER OF THE SCHOOL OF MEDICINE. HE STILL PREFERS AN OIL LAMP TO ELECTRICITY

© Associated Collegiate Press—Mallum, Wash.



STUDENTS AT THE UNIVERSITY OF WASHINGTON ARE GIVEN A 10-DAY JAIL SENTENCE IF THEY ARE CAUGHT PLAYING FOOTBALL IN THE STREETS!

## I DON'T KNOW, I ONLY HEARD,—

That,—“the rider room is the headquarters for the Miners and Mets, in the Quant. Lab. The Chemicals being privileged, are supplied Chainomatic balances, while the Miners and Mets, spend endless hours dithering with riders, but we are still expected to do the same amount of work per unit time—”

That,—“the only way that “Snuffy” Smith can get cooled off is to throw the windows wide open.”

That,—“Prof. Zeuch's lectures should be a good source of salt due to the great amount of sees which they contain.”

That,—“Captain Hodge is endeavoring to secure funds for the purchase of band uniforms.”

This is indeed a most worthy effort. An attractively uniformed band makes a success of itself just as much through its appearance as through its excellent rendition of a spirited march.

The students in the Basic Military course are in no means proud of their dress, however this is a condition that cannot be easily remedied. Why must the band be required to make public appearances in these same ill-fitting and unattractive uniforms?

There is, on the bulletin board in Parker Hall, two placards portraying very distinctive designs for capes. Note that they are executed in the school colors, a fact which makes the band representative of the school rather than of just military department.

The small contribution of each student, along with donations from other sources, will make this endeavor a reality.

living membership numbers about 5,742, and of this number approximately 370 were in college during 1933-34. These figures do not include pledges.

Sigma Pi, from its inception, has aimed to stress quality rather than quantity, worth rather than mere size. Great care has been exercised in granting charters, with the result that today there are 28 active chapters, located in 18 different states reaching from the Atlantic to the Pacific and from the Gulf to the Great Lakes.

The present officers of the Alpha Iota Chapter of Sigma Pi are:

President, G. A. Harwell  
Vice-President, R. Tittle  
Secretary, I. J. Uak  
Treasurer, R. S. Price, Jr.



## THROUGH THE TRANSIT

By Homer Bru

The boys just aint talkin anymore, and how can I write this column without talk? Especially since I was down Springfield way last week-end. The only thing that I can gather that happened around here was the Snake's ball. There seems to have been a little mixup on dates from what I can gather.

A couple of the town gals had dates for another dance out of town this week-end, but the hitch is that they didn't know until a couple of days ago that this out-of-town dance fell on the same date as the Snake dance. so what did they do? Well I'll tell you boys, they went to the out-of-town dance. Oh! you want to know what the Snakes did eh? Well just ask them they will tell you. It seems a bit unfair to the gals though, because I happen to know that no throat cutting was meant by anyone. Well, live and learn or just live as some of us seem to do.

"Shorty" Baumstark who was packing quite a load all evening did-

n't really start till later. But he says somebody turned the lights out on him.

McCurdy hung his pin on the gal from Webster Groves.

Prough was dragging a Theta from Mo. U. Better be careful Dick, a Chi Omega is libble to scratch your eyes out.

Folsom was in his glory most of the evening. He was seen in Milly's fur coat at intermission. Seems as though he was supplying the cheer for the orchestra.

Fritz Hasler was present, and the party progressed to the Hotel Edwin Long after the dance was over.

Laying all cracks aside though, it was a good dance, and here's to more like em.

Next week-end bids to be a big one, what with the Kappa Sigs and Triangles holding their dances on Friday night, and the Pi Kap's holding their Saturday night. Studies will be out of the way by that time. so hold on tight. See you next year.

### CLAYTON ELECTED PRESIDENT

Continued from Page One

C. P. Harris of Cape. and Wilbur Staleup of Maryville.

#### Notes on The Meeting

All the coaches like to sit around in bull-sessions and this writer has a notion that the reason the meeting is being transferred to Kansas City is so they can hold their bull-sessions in the hotels with the Big Six and Mo. Valley conferences.

Previously the meeting had alternated year by year between the two cities.

Coach Carl Voltmer of Warrensburg is going to be married next week, and so come in for quite a bit of "riding" from the coaches.

One of them wanted to know, in a joking manner, how a coach in the M. I. A. A. could afford to get married.

Another consoled Coach Voltmer with the thought that he wouldn't have to abdicate anyhow.

Many queer quirks come up in schedule making. For instance Coach Stuber was in a spot at one time where he would have to take his team to Maryville one week-end and to Kirksville the next.

As Maryville is in the northwest corner of the state, Kirksville in the northeast, and Cape in the southeast, approximately 500 miles from Maryville and 350 from Kirksville, the Indians would have to leave on a Wednesday, play at Maryville on Friday night, get back to Cape on Sunday, have two days practice and hop off for Kirksville.

Luckily Coach Stuber was not forced to make such arrangements.

#### The schedules:

1937

Sept. 24—\*Peru, Neb., at Maryville

Oct. 1—\*Missouri "B" team at Kirksville; \*Carbondale at Cape Girardeau; \*Kansas Wesleyan at Warrensburg; \*Missouri School of Mines at St. Louis.

Oct. 8—Cape Girardeau at Springfield Teachers; Kirksville at Maryville Teachers.

Oct. 15—Miners at Warrensburg; Springfield at Maryville; \*East Texas Teachers at Kirksville.

Oct. 22—Maryville at Cape Girardeau; Springfield at Warrensburg.

Oct. 23—Kirksville at Rolla.

October 29—Maryville at Warrensburg; Cape Girardeau at Kirksville.

Nov. 5—Kirksville at Springfield; \*Maryville at Rockhurst (Kansas City); \*Cape Girardeau at Southern Illinois Teachers (Carbondale).

Nov. 12—Warrensburg at Kirksville.

Nov. 13—Springfield at Missouri School of Mines.

### RIFLE TEAM TIES IN MEET WITH ARMOUR TECH.

The first Postal Match of the year for the M. S. M. rifle team resulted in a tie. This match, which was fired against Armour Tech. of Chicago was a two position match (prone and sitting) and consisted of ten shots fired in each position.

It was understood by both teams that conditions of the match would be that ten men fire the two positions with the high five scores to county for the total. The results were as follows:

Armour Tech.	
Dempsey	194
Jandasick	192
Lobs	191
Morris	192
Reitler	189
Total	958
M. S. M.	
H. L. Wilder	194
Maloney	194
Wilbrite	193
H. F. Crecelius	190
W. F. Breuer	187
Total	958

The next Postal Match that will be fired by the M. S. M. rifle team will be against the University of Florida and will probably be completed before the Christmas holidays.

turn to the colleges for new graduates. The General Electric Co. has been in constant touch with colleges throughout these depressing years. They have found that out of the 35,000 graduates 73% are satisfactorily placed. And, of the remaining, there is something wrong with them.

The G. E. Co., has also found that during 1929 there were 250 organizations choosing graduating engineering students to work for then but in 1936 there are 1500 organizations. This is largely because engineering graduates during the depression, unable to find technical employment, turned to other fields for their livelihood. These organizations have found engineering graduates profitable to them even though their field of service was far from engineering. It is interesting to know that the W. T. Grant Chain Stores employ more engineers than does G. E. Montgomery Ward is another large store which employs a number of engineers. After many years the engineering profession is coming into its own in other fields than pure science.

Education merely puts a veneer about our person. If we have any serious inherent defects, these will be certain to puncture this veneer. Some people attending college are fit only for truck drivers. However, there is nothing wrong about their attending college for they will probably make much better truck drivers because of their college training.

Many people wonder why G. E. interviews seniors. This, may be likened largely to buying a suit of clothes. A person may be familiar with the quality of clothes that a certain manufacture, makes but might still like to look over the patterns. The same is true of G. E.

A man can best be described by describing his characteristics. These may be summed up under three headings: Character, Personality, and Ability. Of those three, the last is the least important.

A man who has had an engineering training cannot help but be honest since his mathematics proves to him that nothing else will prove out. His ability may be high in one field and low in another so that does not amount to much. Many engineers when asked how much of their book knowledge they use on a job reply about 10% is utilized.

The greatest part of a man's success depends upon his personality. Much of his time will be spent in speaking or handling unpleasant people. A man's personality must be so composed that he is able to cooperate with his fellow employees; otherwise he will be a total loss. Very often he must meet the wife and family of a business associate. In this case very often he will be judged by his table manners, his dancing ability, or his choice of

## Prof. Lloyd Lectures to Freshmen Class

### Speaks On Seven Topics of Interest to Engineers; Family a Necessary Organization.

Professor Samuel H. Lloyd, in the second of his series of talks on psychology, spoke to the Class of '40 in the auditorium, Thursday, Dec. 3.

In beginning his lecture Professor Lloyd listed the following topics, and then spoke on each one. The topics were:

- 1—The Family
- 2—Economics and Industries
- 3—Religion
- 4—Communication
- 5—Education and Science.
- 6—Recreation and Public Health

English. Dancing should be a prerequisite for graduation from any engineering school. A man must be a salesman throughout his whole life.

The college man when being interviewed usually takes the attitude of daring the interviewer to pry any information from him. He usually states that he will be glad to do anything. The man who will do anything generally can do nothing. Mr. Boring advises a person to be definite about what he wants to do. The interview is largely interested in the graduate's activities, hobbies, and interests. When the interview is over get up and leave.

Letter writing ability is another very important accomplishment necessary to the graduate. The speaker advised the graduate to write a letter carefully, look it over, then tear it up and start over. After finishing the second letter take it to your best girl and have her rewrite it. Some of the letters received have been very unique. One in particular ended with "Lovingly and Sincerely yours". Another application was written on a postal card saying, "Can I get a job at G. E.?" Mr. Boring said he wrote "NO" across the card and returned it. At one time he received a mimeographed letter and shortly after received 25 more exact copies which had been mailed to other department heads. If you can do something for G. E. tell them about it.

G. E. is not looking for the brilliant student, but the all around man who has taken his part in numerous "bull sessions."

Those who heard Mr. Boring were much impressed with the interesting talk. The Miner takes this opportunity to thank him for this talk.

#### M. S. M.

#### A. S. M. E.

Continued from page four

upper pins or six in number, in the fixed part of the cylinder, fall down into corresponding holes in the plug, which contains five similar pins which are raised to the level of the circumference of the plug by the correct key, the top pins being kept in the required position by means of phosphor bronze springs. If a key is used which does not raise the pins in the plug to the required height, the plug cannot be turned. By providing irregular shapes and milling grooves lengthwise on the sides of the keys to correspond with similar grooves in the keyway in the plug a large number of key changes are available. Theoretically, 531,441 and actually a little over 400,000 are possible.

Mr. Maxwell also showed and explained the function of the keyless or combination lock. These locks consist of a number of discs having notches in them which must be aligned by the dial in order for the bolt to pass back into the unlocked position. On the Yale locks there are theoretically 100,000,000 possible combinations.

Mr. Maxwell also stated that an unpickable lock could never be made that operated with a key.

#### M. S. M.

Nothing more impairs authority than a too frequent or indiscreet use of it. If thunder itself was to be continual, it would excite no more terror than the noise of a mill.—Shakespeare.

#### 7—Ethics and Morals.

As the family is a very necessary organization, Professor Lloyd gave several examples of different family relationships. The queerest example of family custom is found among the South Sea Islanders, where the tribes are divided into four parts. No two persons in the same group are allowed to marry one another, but must marry another from a different part. The oddest feature of their custom is that when two are married the man must live with his wife at least nine months out of a year. The other three months are a so called "open season" when all marriages are dissolved.

In concluding Professor Lloyd explained that throughout life there are continual changes, and some changes proceed more rapidly than others. When several things get far ahead of the others the faster must stop changing and stay stationary or possibly back up in order to keep economic balance. This backing up is Conservatism and every one must follow it to a certain extent.

#### M. S. M.

#### JIM WILSON BACK IN CLASSES

Jim Wilson, star Miner football end, who suffered a ruptured muscle with hemorrhage while playing in the Cape Girardeau game, is back in Rolla again. His injury, which necessitated treatment in the Missouri Baptist Hospital in St. Louis by Dr. Klinefelter, has been found to be not so serious as was at first thought, so that Wilson has recovered sufficiently to be able to attend school again, although he must walk with the aid of crutches until his leg has wholly healed, which may take quite some time.

## PROGRAM ROLLAMO THEATRE

Saturday and Sunday Matinees  
1:30 and 3:30 p. m.

Wed. and Thu., Dec. 16 and 17  
Great Then! Great Now! Brought Back at Your Request!

#### "STATE FAIR"

with WILL ROGERS and Janet Gaynor. Plus—

"Nepune Scholars" and Latest World News Events

#### Friday, Dec. 18 Double Feature

No. 1.—Edith Fellows in

#### "THE TUGBOAT PRINCESS"

No. 2.—Joe Cook in

#### "ARIZONA MAHONEY"

#### SAT., DEC. 19, Matinee and Night

STAR-GREAT...EMOTION-MIGHTY!

FREDRIC MARCH WARNER BAXTER  
LIONEL BARRYMORE  
THE ROAD TO GLORY  
JOE LEE GREGORY RAYOFF

#### Sun. and Mon., Dec. 20 and 21

Ramona  
IN THE NEW PERFECTED TECHNIQUE  
with Loretta YOUNG  
and a cast of thousands

#### TUESDAY, DECEMBER 22

Stuart Erwin and Florence Rice in

#### "WOMEN ARE TROUBLE"

#### Don't Forget Our Big CHRISTMAS SHOW!

Friday, December 25th

#### ONE DAY ONLY

Barbara Stanwyck, Joel McCrea,

Buddy Ebsen in

#### "BANJO ON MY KNEE"



## Gleanings From Our Exchanges

Among the 600,000 books in the Historical Library of the University of Wisconsin three were printed before 1500 and 33 before 100.

A movement is being started in Missouri University to add another foreign language course in the form of Italian. Prof. Singleton, head of the language department, is quoted as saying Italian should be on a par with French and Spanish languages.

The postal authorities could use a little more taste in the selection of glue for stamps.

Who should we find accused of harboring undesirables, but some Columbia University fraternity men. After a thorough hunt by dormitory officials they found no less than the following: Three alligators, three turtles, six white mice, and legions of cats and dogs in the sleeping quarters of the dorm. A pretty fair catch for one day's hunt.

St. Louis University has a cooperative plan which is for laundry, cleaning, and meals, and later on in the year books may be bought cooperatively. Each member pays three dollars at the onset of school which is refunded at the end of the year.

During a Minnesota snowstorm a traveler saw a man's hat on a snow-drift; attempting to pick it up, he found a man under it. "Need a lift?" he asked. The reply was "no, thanks I'm on a horse."—St. Louis University News.

Dancing has been banned as a part of campus social activities at Dakota Wesleyan according to a certain college paper.

Comments overheard about that new car:

Pa:—How many miles to a gallon?  
Ma:—What color is the upholstery?  
Son:—How fast will she go?  
Neighbors:—How can they afford it?

We wonder how many knew of the standing offer of the Collegiate Digest (Publishers of the Rotogravure Sections of College Newspapers) of three dollars (\$3.00) for each picture which is sent in and accepted for print. Candid and unusual shots about the campus are preferred.

Colorado School of Mines freshmen poured 500 gallons of oil around their letter M to prevent weed growth around the edge last summer.

Upperclassmen at Washington U. at St. Louis having a grade point average of 2 are allowed privileges of unlimited cuts. Facts show that none have fallen down in their grades because of it.

According to prevalent campus slang, White plague is exam papers and a Sleeper is a lecture course.

Massachusetts Institute of Technology Scientist calculate that there is enough salt present in all oceans of the world to form a pyramid 300 miles square at the base and 250 miles high. Good news for would-be bird catchers.

Those who go to school and never get out are called professors.

Every year at Los Angeles Junior College two weeks before Thanksgiving are set aside for the "Cave Men" to grow beards. All contestants must shave just before the advent of the Marathon. The man having the longest growth is then given a prize. This prize was won last year by "a hair" with a length of .359 inches.

Chatter Overheard:  
"Say, I went by your home last night."  
"Why didn't you come in?"  
"I didn't know where you lived."  
"I saw you pass by."  
"Why didn't you ask me in?"  
"I didn't know it was you."  
—L. A. J. C.

So one of the Toronto Stork derby contestants has announced that she intends to use part of her winnings to get a divorce. The ingratitude of women.—Chicago Tribune.

"If you sleep on the floor, you can't fall out of bed"—Prof. T. V. Smith, University of Chicago. It must be nice to be a college professor and be able to think up things

like that.—St. Louis Star-Times.

Teacher: "Can any one tell me what happened after Napoleon mustered his army?"

Pupil: "Yes, sir, he peppered the enemy and took the citadel by assault."

Teacher: "Sit down, my lad. I'll have no sauce from you."

A shoulder strap is what keeps an attraction from becoming a sensation.—Excavating Eng.

A patient in a hospital awoke after an operation and found the blinds of the room drawn.

"Why are those blinds down, Doctor?" he asked.

"Well, said the doctor, there's a fire across the street and I didn't want you to wake up and think the operation was a failure."

THE GLEANER.  
M.S.M.

## You Know Them Too

By Mac

With basketball season under way we will all be seeing Bob Lange putting in his fourth year of competition on the Miner hardwood court. This year he is co-captain of the quintet. When the sport world moves out doors in the spring Bob will again headline the Miner track roster over the mid-west with his sensational high-jumping. To relate the many honors he has won in this field would merely be repeating something we all know.

Bob has also claimed honors outside of the field of sports. He is managing editor of the Miner, member of Blue Key, secretary of the Interfraternity Council, and president of his own house, Pi Kappa Alpha.

Bob's personality has won him many friends among the townspeople of Rolla. Even while traveling about the state, as a Rolla student it is not uncommon to hear "Oh yes, I know Bob Lange."

Bob will graduate in June with a degree in Chemical Engineering, Petroleum option. His going will leave a place hard to fill in campus life.

We all wish you the best of everything in every undertaking.

M.S.M.

## Thru The Morning Mail

TO THE EDITOR:

On behalf of the Junior Class of M. S. M., and in answer to the accusations made against the class in the November issue of the Miner, the following financial statement is publicly printed.

Expenditures	
Orchestra .....	\$35.00
Radio Club .....	5.00
St. Pat's Board, use of piano.....	5.00
Custodian service and gym	3.00
Advertising .....	2.00
Decorations .....	2.00
	\$52.00
Receipts	
Sale of Tickets .....	\$51.20
Cloak Room .....	4.80
	\$56.00
	52.00

NET EARNINGS .....\$ 4.00

It will be remembered that the editorial in the Miner of November 25, 1936 carried the statement that no one knew just how the money taken in at this dance was disposed of, mentioning a campus organization as emphasis of the point. Certainly the above financial statement is clear enough that even the most skeptical persons should have no doubt left in their minds as to what was done with the money.

As to the word "PROM" being misused, the Junior Class refers any-

## Library Holds Annual Party

Friday night, December 4, the normally quiet library was the scene for a general merry making and good time. Probably the most noticeable facts were the almost equality of the numbers of men and women in contrast to the absolute inequality at most of the M. S. M. dances and the prevailing spirit of good fun. There was no bunch of stags standing in the center of the dance floor and very few around the edge. The music furnished by a radio and a loud speaker phonograph combination which was set up and operated by Bob Jarrett. The feature of the evening was a square dance with music given by Messrs Zane White, Hermann Anderson, and Raymond Boggs. It was a very great pleasure to find such talent within the confines of the library staff. Since some were not polished up on square dancing, it afforded much amusement to the participants as well as the onlookers.

In a corner unaware of these happenings on the dance floor, sat two players of the complex and brain-teasing game of chess with fans and rooters for each person. There was also a self-composed selection by Mr. Zane White on the violin.

There were six card games in progress between dances. About forty persons were served with delicious refreshments of ice cream and cookies by three unfortunate book bindery boys.

The library staff is very grateful to Mr. and Mrs. Howard for making this party possible.

one interested to any standard dictionary, where he or she can find the following definition—"A large ball or dance."—Note carefully that the definition does not call for the admittance of anyone free of charge.

It might be stated, in conclusion, that the dance was given by the class in order to raise enough money to present a bid dance to the seniors next spring.

James G. Miller

TO BE BRIEF:

One who cannot endure the "practical jokes" as provided by the Sophomore Class each year at M. S. M. is a weakling and is not wanted as a candidate for an Engineering degree.

May I suggest that you enroll with Stephen's College in Columbia, Mo.?

A real "Miner",

A True Engineer.

M.S.M.

## U. S. ARMY HAS VACANCIES FOR YOUNG MEN

The U. S. Army Recruiting Station, 921 New Federal Building, St. Louis, Missouri, has numerous desirable vacancies for those young men who can meet with the required mental

and physical qualifications, with stations at the following posts:

Infantry, Fort Wayne, Michigan.  
Infantry, Fort Sheridan, Illinois.  
Air Corps, Selfridge Field, Mich.  
Air Corps, Scott Field, Illinois.  
6th Signal Service Company.  
Quartermaster Corps, Camp Custer, Michigan.  
Quartermaster Corps, Camp McCoy, Wisconsin.

Any young man of this community who is single and between the ages of 18 and 35, who wishes to enlist may do so by applying in person to the above address.

For additional information see your Postmaster.

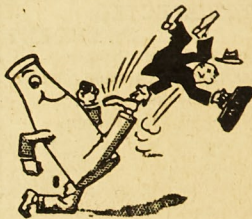
M.S.M.

## TRIANGLE INITIATES THREE MEMBERS

The Missouri Mines Chapter of Triangle Fraternity initiated three members Sunday, December 6th. Those initiated were Millard Smart, Victor Spalding, and Elmond Clardige. The ceremony was followed by a banquet which was attended by the active members and Professors H. R. Hanley, C. M. Dodd, and E. W. Carlton. Talks were given by the three professors and the three new members.

M.S.M.

Let the other fellow talk occasionally. You can't learn much listening to yourself.



## A Quart a Day Keeps the Doctor Away!

There's an easy answer. Build up resistance to winter ills. Give the whole family the energy they need to see them through.

It's a simple solution . . . and one that your family will enjoy, for you'll find dozens of delicious ways to serve Tucker's Milk.

Try it tonight, and plan on serving it often all through the winter. Make your motto a quart a day . . . for every member of the family!

P. S.—Incidentally . . . a month's supply of Tucker's milk will probably cost less than one professional call by the family doctor!

## Tucker's Dairy

Call 437 for Delivery



THE  
Modern Barbers  
and  
MODERN CLEANERS  
Wish You A  
MERRY CHRISTMAS

Rolla  
State  
Bank

## MINERS LOUNGE

At the Campus—A Good Place to Eat when is a rush  
For That Class  
AL SMITH, Prop.

## PINE STREET MARKET

Phone 17 We Deliver  
GROCERIES—MEATS—VEGETABLES

## Malted Milks or Sodas

Made with Our  
Delicious Home-  
Made Ice Cream

15c

Sandwiches  
All Kinds

AFTER THE GAME—

AFTER THE SHOW—

AFTER THE DANCE—

REMEMBER

## Harvey's Restaurant

A pleasant spot to meet your friends  
OPEN ALL NIGHT





## Miners Defeat Central Wesleyan; Lose to Strong Drury Quintet

BY JIMMIE EVANS  
MISSOURI MINER SPORT WRITER

In the opening week of the basketball season, the Miners divided two non-conference games. The first, a home stand, they captured from the Central College quintet, 25 to 16, while the other, an away game, they dropped to Drury Panthers 48-33.

The game against Central got away to a slow start and through the major part of the first half of the game it was a nip and tuck affair with the lead changing rapidly. Finally toward the end of the half Freshman Herb Kamper began to camp in the "coffin" corner and drops in field goals from that angle. With this encouragement, the Miner team step into the lead and maintained it until the half when the score stood 19-13 in favor of the Grey and Gold.

As the second quarter started Bob Lange dumped in another basket and then the Miners clamped down with a defense that allowed the Eagles only three tallies during the whole period. As a whole the game was not a spectacular one but rather more of a passing and maneuvering game. Herb Kamper was high point man with eight markers, while Busch and Lange trailed with six.

In the starting line-up Kirchhoff had two veteran lettermen, Bill Busch at guard and Bob Lange at center, one man from last year's reserve at guard, Joe Carroll, and two men new this year to the squad, Kamper and Spalding.

In the second game of the week the Miners ran up against a veteran Drury team, that last year captured the M. C. A. U. title and this year is even stronger, and came out second best. In this second game, "Kirch" rearranged his starting line-up and started at forward. Eddie Ballman, a junior, who is playing his first season as a Miner regular, to team up with Spalding in place of Kamper, who he moved to guard in Carroll's place.

Drury sprung a defense on the Miners and completely bottled them up in the first half, while they themselves collected twenty-five points particularly through the efforts of Jack James, freshman, who picked up ten points for the Panthers and was high point man for the evening.

In the second half the Miners quit attempting to work plays and the game developed into a mid court shooting battle. Busch's three long pitches and an equal number by Spalding put the Miners within fighting distance but the Drury lead was too great to overcome and so the Miners were eclipsed in their second game.

Friday night the Miner quintet meets the Cape Girardeau squad on the latter's floor. Cape has lost only one man from its last year top notch squad. However two of the regulars are out with injuries. Lloyd McDowell is out with a broken finger and Harold Kiehne, all state forward, is laid up with arthritis. To fill their places Coach Davis is using Godwin, a member of last season's squad and Hub Shroyer a freshman who in the Cape game against Arkansas scored 16 points to lead for the evening. At center Cape has Gene McDonald, its captain, Kenneth Luke, a six foot-four youngster and Henry Norman who scored 12 points against Arkansas. At guard are two veteran men, Joe McDonald, all state guard, and Hayes Adams. The two McDonald's are the co-captains.

In its only game so far this season Cape shellacked Arkansas State College last Wednesday 48 to 22. With teams like Maryville, Warrensburg and Cape its going to be rather difficult for the Miner cage squad to go too far this year.

Miners FG FT PF T  
Kamper, g. 1 1 3 3  
Clayton, g. 0 0 0 0  
Busch, g. (Capt) 3 1 3 7  
Carroll, g. 0 0 0 0  
Lange, c. 2 4 1 8  
Strawghun, c. 0 0 4 0  
Ballman, f. 3 1 0 7  
Miller, f. 1 0 1 2  
Spalding, f. 3 0 1 6  
Timberman, g. 0 0 0 0

Drury FG FT PF T  
White, f. 2 1 1 5  
R. Nelson, f. 0 0 0 0  
Blasingame, f. 3 0 1 6  
Westover, f. (Capt) 2 2 0 6  
Nee, f. 0 0 1 0  
Moore, c. 2 1 3 5  
Bailey, g. 0 0 1 0  
Ewing, g. 2 3 0 7  
Billings, g. 0 1 0 1  
James, g. 5 0 3 10  
Basore, g. 1 1 2 3  
D. Nelson, c. 1 1 1 3  
Parnell, g. 1 0 0 2

Miners FG FT PF T  
Spalding, f. 0 0 1 0  
Miller, f. 1 0 0 2  
Kamper, f. 4 0 1 8  
Ballman, f. 0 0 0 0  
Lange, c. (Capt) 3 0 2 6  
Strawghun, c. 0 1 0 1  
Carroll, g. 1 0 1 2  
Clayton, g. 0 0 2 0  
Busch, g. 3 0 2 6  
Timberman, g. 0 0 0 0  
Sheppard, g. 0 0 0 0  
Tucker, f. 0 0 0 0  
Tucker, f. 0 0 0 0

Central FG FT PF T  
Schlener, f. 1 1 1 3  
Lohman, f. 2 0 2 4  
Knockstead, f. 0 0 0 0  
Gray, c. (Capt) 1 1 1 3  
Bitteker, g. 0 0 0 0  
Vaughn, g. 0 0 0 0  
Hill, g. 0 0 2 0  
Haper, g. 2 2 0 6

By reaching for a height we cannot quite touch we improve standards.

CALL 163

THE FARMERS EXCHANGE

FOR POULTRY, EGGS AND GROCERIES

### BASKETBALL SCHEDULE

Miners 25, Central College 16  
Miners 33, Drury 48  
December 18—Cape Girardeau at Cape Girardeau  
January 8—Drury at Rolla  
January 9—Kirkville at Rolla  
January 15—Springfield at Rolla  
January 29—Warrensburg at Rolla  
February 5—Maryville at Rolla  
February 8—Warrensburg at Warrensburg  
February 15—Kirkville at Kirkville  
February 16—Maryville at Maryville  
February 19—Cape Girardeau at Rolla  
February 24—Springfield at Springfield

### They Turned The Tables On Us

What is this world coming to when we find our old stand-by pep song flung back at us with two different words? Taken from the "Drury Mirror".

If I had a daughter,  
I'd dress her up in green,  
And send her up to Rolla,  
To coach the Rolla team.  
But if I had a son, sir  
I tell you what he'd do—  
He'd say—to hell with Rolla—  
Like his father used to do.  
At least it makes us proud to think  
our song is liked by Drury also.

See ALLISON For a  
Complete Line of Jewelry  
Elgin, Waltham, Hamilton and  
Bulova Watches

C. D. VIA  
The House of a 1000 Values  
ROLLA, MO.

JIM PIRTLE  
Watchmaker and Jeweler  
Fine Repair Work a Specialty  
40 Years Experience  
30 Years in Rolla

## Football Team To Hold Banquet Tonight

The 1936 Miner Football Banquet will be held at Hotel Edwin Long, Wednesday, December 16, at 7 o'clock p. m.

Tickets \$1.00 each may be purchased from Mr. Katz in the M. S. M. Business Managers office; Mr. A. L. Johns of the Bureau of Mines; Coach Grant, Professors Carlton and Denie.

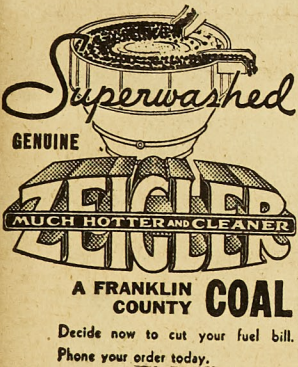
Jimmy Conzelman, Coach of Washington University football team will be the guest speaker and undoubtedly will have something of interest to everyone present.

Buy your ticket early and by your presence let the boys know you are for them.

—M.S.M.—  
Six feet, two inches, 195 pounds, 440 yards in 49.5 seconds—description of Upson Scholar, potential poison for Rutgers' rivals during the next three years.

## In The Judgment of Fuel Economy

CLEANLINESS should be considered; economy is important; convenience should play a part . . . but comfort . . . the comfort that only HEAT can bring . . . should be uppermost in your mind when you order winter fuel! Ziegler considers all these factors . . . and Ozark Supply Co. recommends only the finest of fuels!



Decide now to cut your fuel bill. Phone your order today.

OZARK SUPPLY CO.

### PLATE LUNCH

3 Vegetables  
Salad  
Dessert  
Drink  
25 CENTS

Nesbit's Cafe

\$5.50 Meal Tickets for \$5.00

## ELECTRICAL GIFTS

For Every Home

Convenience!

Economy!



"Take A Tip From Me"  
Give Something Electrical  
Mo. General Utilities Co.

### DRINK

FALSTAFF BEER

The Choicest Product

OF THE BREWER'S ART

Rolla Wholesale Grocery Co.

DISTRIBUTORS



WE HAVE GIFTS

FOR THE ENTIRE FAMILY!

PHILCO All Wave RADIOS

'Electrical Appliances of All Kinds'

Every Member of the Family will Enjoy These Christmas Gifts

SMITH HARDWARE

Pine Street

Rolla, Mo.



## SCOTT'S--The MINER'S CO-OP and BOOK EXCHANGE

SCOTT BLDG., 8TH & PINE

### Price To Be Cadet Major

Pursuant to authority contained in paragraph 32, Army Regulations 145-10, and to the approval of the Director, the Missouri School of Mines and Metallurgy, the following

appointments of cadet officers are made:

To be Cadet Major:

Samuel R. Price, Jr.

To be Cadet Captains:

William C. Busch

William W. Culbertson

Walter E. Luder

Kenneth F. Sheckler

To be Cadet First Lieutenants:

Arthur H. Barclay

Harold R. Bentley

Richard J. Cardetti

Walter L. Holz

Robert R. Kaley

A. Arthur Phillips

Samuel S. Post

Fred K. Vogt

To be Cadet Second Lieutenants:

William A. Ford

Oscar E. Grewis

Glen N. Hackmann

Fletcher T. McCrae

John F. Vahle

Lewis C. Gordon.

Major, E. E.,

P. M. S. & T.

M.S.M.

### A. I. E. E. MEETING

The A. I. E. E.'s will hold a meeting tonight, in the interest of the

Electricals and any one else interested, to review an article on the Boulder Dam project written in the "Electrical Journal." Each student will discuss individually certain parts of the article. If you are interested in Electrical, take advantage of this opportunity to learn more about this great engineering accomplishment. Every one is invited.

# I tumble to 'Em-

Buddy,

I can't pay a higher compliment than that.

*Girl or cigarette... when  
I tumble that means I'm  
for 'em.*

Chesterfield's my cigarette.  
And I'll tell all hands they've  
got a hearty good taste that  
makes a sailor happy. And  
listen, they're milder.

*... for the good things a  
cigarette can give a sailor*

*I'll sign up with  
Chesterfields*

